



FortiGate 620B

QuickStart Guide



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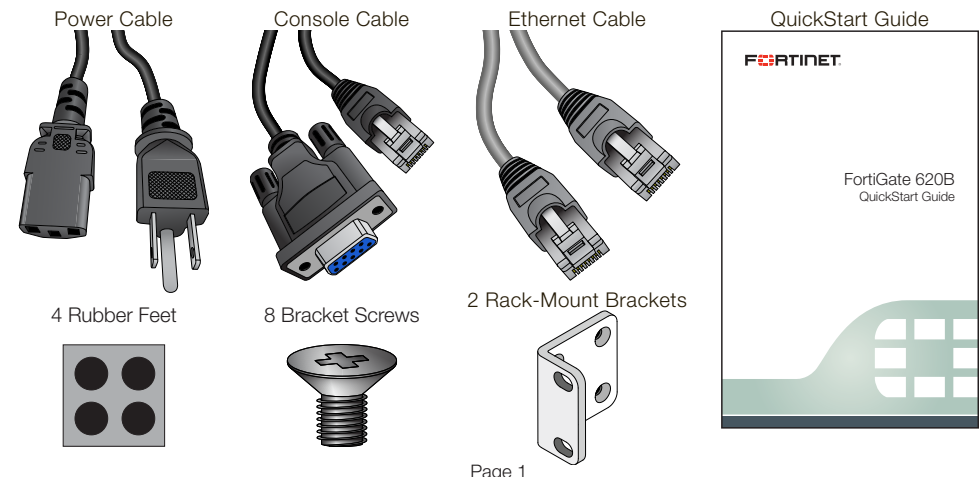
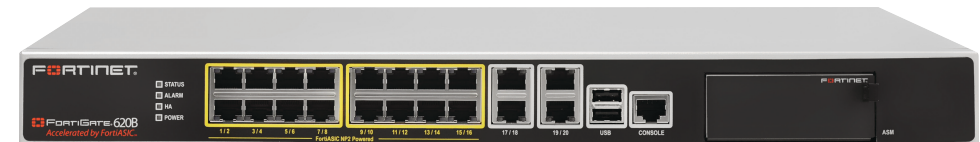
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Package Contents

Thank you for purchasing the FortiGate 620B. Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

- FortiGate 620B
- QuickStart Guide
- Power Cable
- Ethernet Cable
- Console Cable
- 2 Rack-mount Brackets
- 8 Bracket Screws
- 4 Rubber Feet



Installation

The FortiGate unit can be placed on any flat surface, or mounted in any standard 19 inch (48.3 cm) rack unit with the provided rack-mount brackets and screws.

Please read the Cautions and Warnings section prior to installing your device.

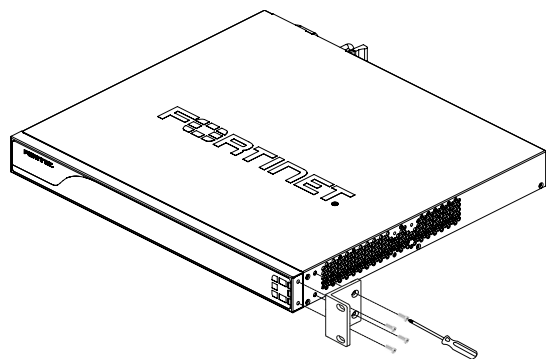
Caution: Electrostatic discharge (ESD) can damage your Fortinet equipment.

Caution: Do not place heavy objects on the unit.

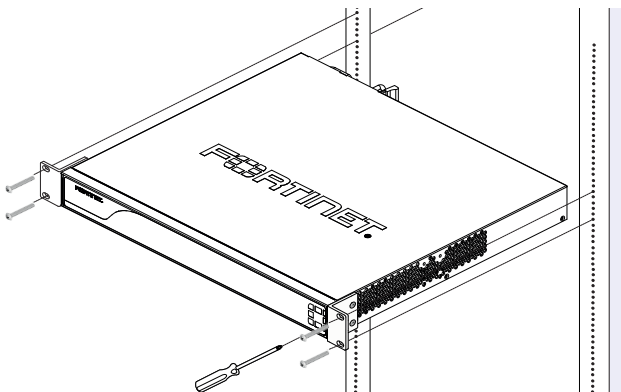
To install the FortiGate unit into a rack:

Caution: To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

1. Ensure that the FortiGate unit is placed on a stable surface prior to rack-mount installation.
2. Attach the provided rack-mount brackets to the sides of the unit using the provided screws.



3. Position the FortiGate unit in the rack. Ensure there is enough room around the unit to allow for sufficient air flow.

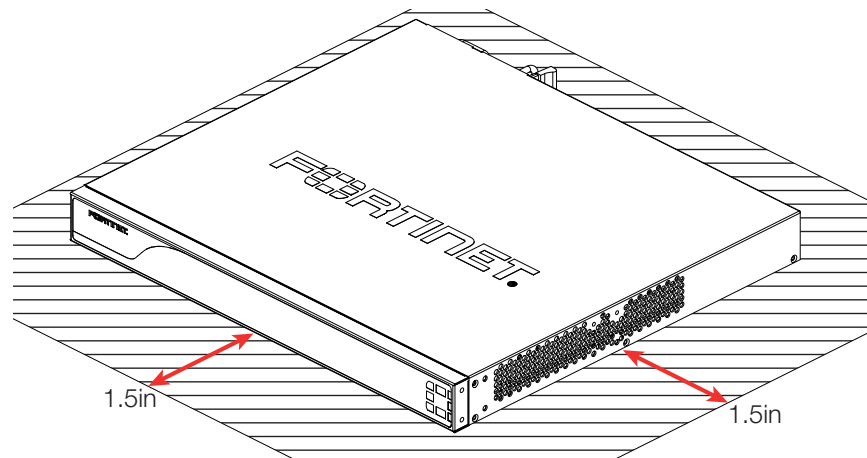


4. Line up the rack-mount bracket holes to the holes on the rack and ensure that the FortiGate unit is level.
5. Finger tighten four rack-mount screws to attach the unit to the rack.
6. Verify that the spacing around the FortiGate unit conforms to requirements and that the unit is level, then tighten the rack-mount screws with an applicable screwdriver.
7. Using the provided power cables, plug the cables into the rear of the unit and then into an electrical outlet.

Note: If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

To install the unit on a flat surface:

1. Ensure that the surface onto which the FortiGate unit to be installed is clean, level, and stable and that there is at least 1.5 inches (3.5cm) of clearance on all sides to allow for adequate airflow.
2. Attach the provided rubber feet to the bottom of the FortiGate unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiGate unit conforms to requirements and that the unit is level.



5. Using the provided power cables, plug the cables into the rear of the unit and then into an electrical outlet.

Note: If the unit has a redundant power supply, each power cable should be connected to a different power source. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

Connecting to the FortiGate Unit

The FortiGate unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

In addition to FortiExplorer, the FortiGate unit can be configured using the Web-based Manager or the CLI.

This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

To Connect to the Web-based Manager:

1. Connect the FortiGate unit to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiGate unit:
 - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
 - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiGate unit Web-based Manager, start a browser of your choice and browse to <https://192.168.1.99> (remember to include the “s” in https://).
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

You can now proceed with configuring your FortiGate unit.

To Connect to the CLI:

You can configure all FortiGate configuration options from the CLI using *config* commands. The CLI also includes *get*, *show*, *diagnose*, and *execute* commands for performing various configuration and monitoring tasks.

1. Connect the FortiGate unit console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer. Use the following settings:
 - Baud Rate: 9600
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow Control: None
3. Press *Enter* on your keyboard to connect to the CLI.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and press *Enter*.

You can now proceed with configuring your FortiGate unit.

For more information about using the Web-based Manager and the CLI, see the FortiGate section of Fortinet’s documentation website, located at <http://docs.fortinet.com>.

To reset the unit to factory default settings from the CLI

To reset the FortiGate unit to the factory default settings from the CLI, enter the following command:

```
execute factoryreset
```

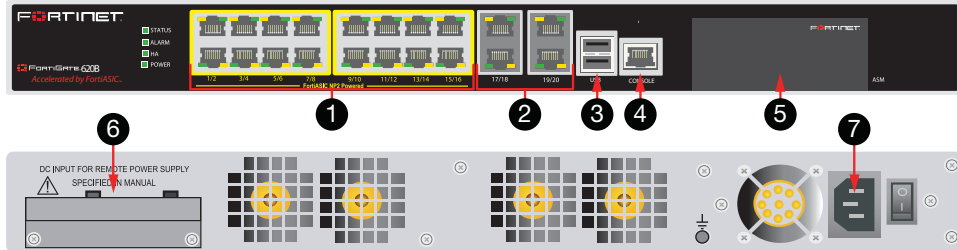
To shutdown the unit

When powering off the FortiGate unit, always shutdown the unit using the following procedures before disconnecting the power supply. To shutdown the Fortigate unit using the CLI, enter the following command:

```
execute shutdown
```

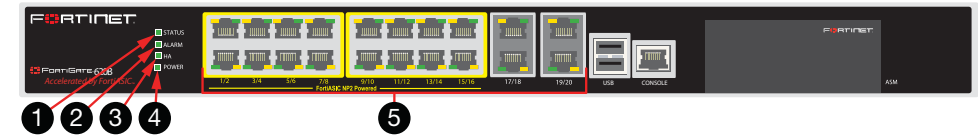
You can also shutdown the FortiGate unit in the Web-based Manager. Go to *System > Dashboard > Status*, select *Shutdown* in the Unit Operation widget, and select *OK*.

Technical Specifications



#	Interface	Type	Description
1	Ethernet Ports 1-16	RJ-45	FortiASIC-accelerated switched gigabit Ethernet Ports.
2	Ethernet Ports 17 - 20	RJ-45	Non-accelerated switched gigabit Ethernet ports.
3	USB	USB A	USB server ports for USB key, or management functions.
4	Console	RJ-45	Optional connection to the management computer. Provides access to the CLI.
5	AMC Slot	AMC	Optional (ASM-SO8, ASM-FB4, ASM-FX2, or ASM-CX4).
6	Redundant Power Supply		Optional (FG-620B-RPS)
7	Power Connection		100-240V AC, 60-50Hz, 6.3A

LED Specifications



#	LED	State	Description
1	STATUS	Flashing Green	The unit is booting up.
		Green	The unit is operating normally.
2	Alarm	Off	Not in use.
		Green	The unit is operating in HA mode.
3	HA	Off	The unit is not operating in HA mode.
4	POWER	Green	The unit is on.
		Off	The unit is off.
5	Ethernet Port Activity	Green	The correct cable is in use, and the connected equipment has power.
		Off	No network cable connected.
5	Ethernet Port Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps.

Cautions and Warnings

Please review the following cautions and warnings.

Environmental and mounting specifications

Operating temperature: 0 - 40°C (32 - 104°F)

Storage temperature: -25 - 70°C (-13 - 158°F)

Humidity: 20 to 90% non-condensing

Operating Altitude: <2250m (7400ft)

Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. For free-standing installation, make sure that the appliance has at least 1.5 inches (3.75 cm) of clearance on each side to allow for adequate air flow and cooling.

Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Voluntary Control Council for Interference (VCCI) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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China

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European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

Note: For DC installations, a readily accessible disconnect device shall be incorporated in the building installation wiring.

Caution: For devices that contain a battery, risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations.

Documentation and Links

The following Fortinet web pages provide information and resources for your Fortinet product:

1. Customer Service & Support: <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

2. Technical Documentation: <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products. The following guides more information on the installation and configuration of your FortiGate unit:

- **Hardware Guide:** This guide describes how to mount your FortiGate unit, hardware acceleration, and configuring Redundant Array of Independent Disks (RAID).
- **System Administration Guide:** This guide describes initial configuration of your FortiGate unit, centralized management, tightening security, best practices, and configuration examples.
- **Fundamentals Guide:** This guide describes NAT versus Transparent mode, packet flow and inspection, firewall components, virtual IPs, security policies, UTM profiles, and troubleshooting traffic.
- **UTM Guide:** This guide includes examples and step-by-step instructions for the UTM features available on your FortiGate unit, such as AntiVirus, intrusion prevention system (IPS), web and email filtering, Data Leak Prevention (DLP), and application control.
- **Troubleshooting Guide:** This guide describes the troubleshooting process and best practice concepts, how Fortinet Support operates, and diagnostic commands in the CLI.

3. Technical Discussion Forums: <http://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

4. Training Services: <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

5. FortiGuard Threat Research and Response: <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to techdoc@fortinet.com.

Register Your Product

If you did not register your Fortinet product using the FortiExplorer wizard, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

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